

Diffusion & Surface Area

Put gloves and glasses on for the following procedures

1. Measure the SA & V of the 4 gels at your table and then calculate the SA/V ratio. Record values into the data table.
2. Predict the order of diffusion from the slowest (4) to fastest (1) and justify your responses using the values calculated.
3. Pick up the 4 gels with the spoons and add to the acid at the same time.
4. Start a timer and record the time taken for the acid to diffuse completely into the gels (changing their color from pink to clear/light brown).

Each person in your group can be in charge of 1 gel to make timing easier!

Gel Description	SA	V	SA/V	Order

Justification for order:

Explain the results and any deviations from predictions.

Discuss how the shapes of each gel assisted in speeding up diffusion and how this is beneficial to certain cells.